

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LITHOGRAPHIC PROJECTION APPARATUS, PURGE GAS SUPPLY SYSTEM AND
GAS PURGING METHOD

the specification of which (check one)

- [] is attached hereto.
- [] was filed on [] as United States Application Number [].
- [X] was filed on 21 July 2004 as PCT International Application No. PCT/US2004/023490 and assigned United States Application No. 10/565,486.
- [X] and was amended on January 20, 2006 by Preliminary Amendment.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
<u>(Number)</u>	<u>(Country)</u>	<u>(Day/Month/Year filed)</u>	[]	[]	[]
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<u>(Number)</u>	<u>(Country)</u>	<u>(Day/Month/Year filed)</u>	[]	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole
or first inventor

Bipin S. Parekh

Inventor's Signature

Bipin S. Parekh

Residence: City

State

Country

Citizenship

Chelmsford	MA	USA	USA
------------	----	-----	-----

Mailing Address (Business or Residential)

Street or P.O. Box 2 Kastraki Place

City	State	ZIP	Country
Chelmsford	MA	01824	USA

Full name of second

joint inventor, if any Jeffrey J. Spiegelman

Inventor's Signature

Residence: City

State

Country

Citizenship

San Diego	CA	USA	USA
-----------	----	-----	-----

Mailing Address (Business or Residential)

Street or P.O. Box 5289 Meadows Del Mar

City	State	ZIP	Country
San Diego	CA	92130	USA

Full name of third

joint inventor, if any Robert S. Zeller

Inventor's Signature

Residence: City

State

Country

Citizenship

Boston	MA	USA	USA
--------	----	-----	-----

Mailing Address (Business or Residential)

Street or P.O. Box 32 Bradford Street

City	State	ZIP	Country
Boston	MA	02118	USA

Full name of fourth

joint inventor, if any Russell J. Holmes

Inventor's Signature

Residence: City

State

Country

Citizenship

Santee	CA	USA	USA
--------	----	-----	-----

Mailing Address (Business or Residential)

Street or P.O. Box 8437 Rumson Drive

City	State	ZIP	Country
Santee	CA	92071	USA

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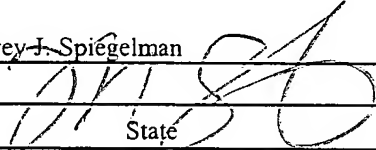
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Full name of sole or first inventor <u>Bipin S. Parekh</u>			
Inventor's Signature _____			
Residence: City	State	Country	Citizenship
Chelmsford	MA	USA	USA

Mailing Address (Business or Residential)			
Street or P.O. Box <u>2 Kastraki Place</u>			
City	State	ZIP	Country
Chelmsford	MA	01824	USA

Full name of second joint inventor, if any <u>Jeffrey J. Spiegelman</u>			
Inventor's Signature 			
Residence: City	State	Country	Citizenship
San Diego	CA	USA	USA

Mailing Address (Business or Residential)			
Street or P.O. Box <u>5289 Meadows Del Mar</u>			
City	State	ZIP	Country
San Diego	CA	92130	USA

Full name of third joint inventor, if any <u>Robert S. Zeller</u>			
Inventor's Signature _____			
Residence: City	State	Country	Citizenship
Boston	MA	USA	USA

Mailing Address (Business or Residential)			
Street or P.O. Box <u>32 Bradford Street</u>			
City	State	ZIP	Country
Boston	MA	02118	USA

Full name of fourth joint inventor, if any <u>Russell J. Holmes</u>			
Inventor's Signature _____			
Residence: City	State	Country	Citizenship
Santee	CA	USA	USA

Mailing Address (Business or Residential)			
Street or P.O. Box <u>8437 Rumson Drive</u>			
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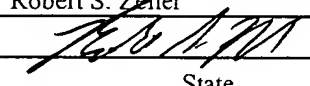
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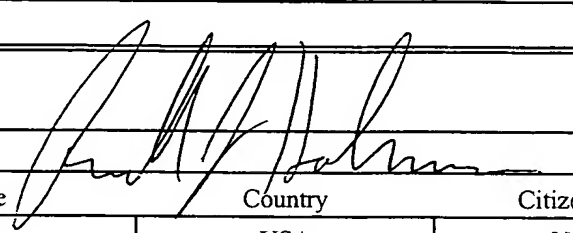
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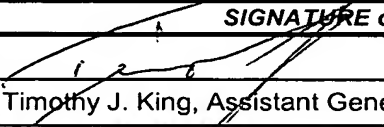
Street or P.O. Box 8437 Rumson Drive

City State ZIP Country

Santee	CA	92071	USA
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HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM	<i>Application Number</i>	10/565,486		
	<i>Filing Date</i>	21 July 2004 (PCT)		
	<i>First Named Inventor</i>	Bipin S. Parekh		
	<i>Confirmation Number</i>	Unknown		
	<i>Group Art Unit</i>	Unknown		
	<i>Examiner Name</i>	Unknown		
	<i>Attorney Docket Number</i>	3194.1033-013		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"><i>Title</i></td> <td>LITHOGRAPHIC PROJECTION APPARATUS, PURGE GAS SUPPLY SYSTEM AND GAS PURGING METHOD</td> </tr> </table>			<i>Title</i>	LITHOGRAPHIC PROJECTION APPARATUS, PURGE GAS SUPPLY SYSTEM AND GAS PURGING METHOD
<i>Title</i>	LITHOGRAPHIC PROJECTION APPARATUS, PURGE GAS SUPPLY SYSTEM AND GAS PURGING METHOD			

I hereby appoint <input checked="" type="checkbox"/> Practitioners associated with Customer No. 021005 <input type="checkbox"/> Practitioner(s) named below: 	
as my/our attorneys/agents to prosecute the application identified above, including any continuation or divisional applications thereof, and to transact all business in the United States Patent and Trademark Office connected therewith.	
Please recognize or change the correspondence address for the above-identified application to: <input checked="" type="checkbox"/> Customer Number 021005 Hamilton, Brook, Smith & Reynolds, P.C. 530 Virginia Road P.O. Box 9133 Concord, Massachusetts 01742-9133 <input type="checkbox"/> Other _____	
Please direct all telephone calls and facsimiles to: Name <u>Alice O. Carroll, Esq.</u> Tel. No. <u>978-341-0036</u> Fax No. <u>978-341-0136</u>	
I am the: <input type="checkbox"/> Applicant/Inventor. <input checked="" type="checkbox"/> Authorized representative of the Assignee, Entegris, Inc., of the entire interest. See 37 C.F.R. § 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed. <input type="checkbox"/> Authorized representative of the Assignee, [], together with [], of the entire interest. A Statement under 37 C.F.R. § 3.73(b) is enclosed.	
SIGNATURE of Applicant or Assignee of Record	
Signature	
Name & Title	Timothy J. King, Assistant General Counsel, Intellectual Property
Date	3/8/6

STATEMENT UNDER 37 C.F.R. § 3.73(b)Inventors: Bipin S. Parekh, Jeffrey J. Spiegelman, Robert S. Zeller and Russell J. HolmesApplication No./Patent No.: 10/565,486 Filed/Issue Date: 21 July 2004 (PCT)For: LITHOGRAPHIC PROJECTION APPARATUS, PURGE GAS SUPPLY SYSTEM AND GAS PURGING METHODEntegris, Inc., a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. ☒ the assignee of the entire right, title and interest in the patent application identified above; or
- B. ☐ an assignee together with ☐ of the entire right, title and interest in the patent application identified above.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. ☒ An assignment from the inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature:  _____Name: Timothy J. KingTitle: Assistant General Counsel, Intellectual PropertyDate: 3/8/6

ASSIGNMENT**COPY**Joint

WHEREAS, we, **Bipin S. Parekh, Jeffrey J. Spiegelman, Robert S. Zeller and Russell J. Holmes**, have invented a certain improvement in **LITHOGRAPHIC PROJECTION APPARATUS, PURGE GAS SUPPLY SYSTEM AND GAS PURGING METHOD** described in an application for Patent,

- ☐ the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☐ the specification of which is United States Application No. [], filed [];
- ☒ the specification of which is a Patent Cooperation Treaty Application, International Application No. **PCT/US2004/023490**, filed **21 July 2004**, which designates the United States of America and assigned United States Application No. **10/565,486**;
- ☐ which was patented under United States Patent No. [].

WHEREAS, **Entegris, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **3500 Lyman Boulevard, Chaska, MN 55318** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Bipin S. Parekh

Bipin S. Parekh

State/Commonwealth

of Massachusetts

County of Middlesex

On this 2nd day of March, 2006, before me, the undersigned notary public, personally appeared **Bipin S. Parekh**,



personally known to me, or



proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Noreen Buckley

Notary Public

Noreen Buckley

(print name)

My Commission expires 11/06/2009

Noreen Buckley
Notary Public
My Commission Expires
November 6, 2009

Inventor's Signature: _____
Jeffrey J. Spiegelman

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Jeffrey J. Spiegelman**,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____
Robert S. Zeller

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Robert S. Zeller**,

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(print name)

My Commission expires ____/____/____

State/Commonwealth

of _____

County of _____

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(SEAL)

Notary Public

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(print name)
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My Commission expires ____/____/____

ASSIGNMENT**COPY** Joint

WHEREAS, we, **Bipin S. Parekh, Jeffrey J. Spiegelman, Robert S. Zeller and Russell J. Holmes**, have invented a certain improvement in **LITHOGRAPHIC PROJECTION APPARATUS, PURGE GAS SUPPLY SYSTEM AND GAS PURGING METHOD** described in an application for Patent,

- ☐ the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☐ the specification of which is United States Application No. [], filed [];
- ☒ the specification of which is a Patent Cooperation Treaty Application, International Application No. **PCT/US2004/023490**, filed **21 July 2004**, which designates the United States of America and assigned United States Application No. **10/565,486**;
- ☐ which was patented under United States Patent No. [].

WHEREAS, **Entegris, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **3500 Lyman Boulevard, Chaska, MN 55318** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____
Bipin S. Parekh

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Bipin S. Parekh**,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public
(print name)

My Commission expires ____/____/____

Docket No. 3194.1033-013

Inventor's Signature: _____

Jeffrey J. Spiegelman

State/Commonwealth

of _____

County of _____

On this 3 day of April, 2006, before me, the undersigned notary public, personally appeared **Jeffrey J. Spiegelman**,

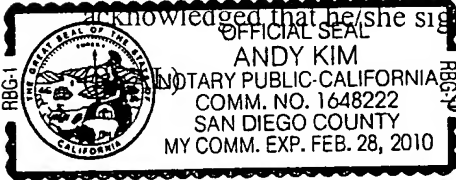
☐

personally known to me, or

☒

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Andy Kim

Notary Public

Andy Kim

(print name)

My Commission expires 2/28/2010

Inventor's Signature: _____

Robert S. Zeller

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Robert S. Zeller**,

☐

personally known to me, or

☐

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____
Russell J. Holmes

State/Commonwealth _____
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Russell J. Holmes**,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public
(print name)

My Commission expires ____ / ____ / ____

ASSIGNMENT**COPY**Joint

WHEREAS, we, **Bipin S. Parekh, Jeffrey J. Spiegelman, Robert S. Zeller and Russell J. Holmes**, have invented a certain improvement in **LITHOGRAPHIC PROJECTION APPARATUS, PURGE GAS SUPPLY SYSTEM AND GAS PURGING METHOD** described in an application for Patent,

- ☐ the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☐ the specification of which is United States Application No. [], filed [];
- ☒ the specification of which is a Patent Cooperation Treaty Application, International Application No. **PCT/US2004/023490**, filed **21 July 2004**, which designates the United States of America and assigned United States Application No. **10/565,486**;
- ☐ which was patented under United States Patent No. [].

WHEREAS, **Entegris, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **3500 Lyman Boulevard, Chaska, MN 55318** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Bipin S. Parekh

State/Commonwealth _____

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Bipin S. Parekh**,

☐

personally known to me, or

☐

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____
Jeffrey J. Spiegelman

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared Jeffrey J. Spiegelman,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____
Robert S. Zeller

State/Commonwealth
of Massachusetts
County of Suffolk

On this 10th day of April, 2006 before me, the undersigned
notary public, personally appeared Robert S. Zeller,

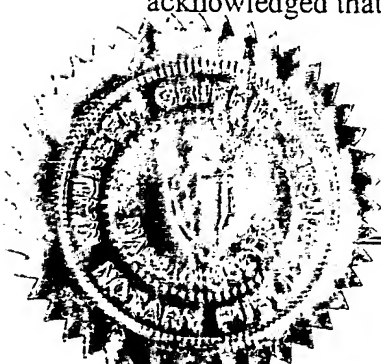
☐ personally known to me, or

☒ proved to me through satisfactory evidence of identification, which was
Massachusetts Drivers License

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

Maureen Griffin-Stone
(print name)
My Commission expires ____/____/____

Maureen Griffin-Stone
Notary Public
My Commission Expires
March 27, 2009



Inventor's Signature: _____
Russell J. Holmes

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Russell J. Holmes**,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

ASSIGNMENT**COPY**Joint

WHEREAS, we, **Bipin S. Parekh, Jeffrey J. Spiegelman, Robert S. Zeller and Russell J. Holmes**, have invented a certain improvement in **LITHOGRAPHIC PROJECTION APPARATUS, PURGE GAS SUPPLY SYSTEM AND GAS PURGING METHOD** described in an application for Patent,

- ☐ the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☐ the specification of which is United States Application No. [], filed [];
- ☒ the specification of which is a Patent Cooperation Treaty Application, International Application No. **PCT/US2004/023490**, filed **21 July 2004**, which designates the United States of America and assigned United States Application No. **10/565,486**;
- ☐ which was patented under United States Patent No. [].

WHEREAS, **Entegris, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **3500 Lyman Boulevard, Chaska, MN 55318** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Bipin S. Parekh

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Bipin S. Parekh**,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____
Jeffrey J. Spiegelman

State/Commonwealth _____
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Jeffrey J. Spiegelman**,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____
Robert S. Zeller

State/Commonwealth _____
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Robert S. Zeller**,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

Russell J. Holmes

State/Commonwealth

of

California.

County of

San Diego.

On this 3 day of April, 2006, before me, the undersigned notary public, personally appeared **Russell J. Holmes**,

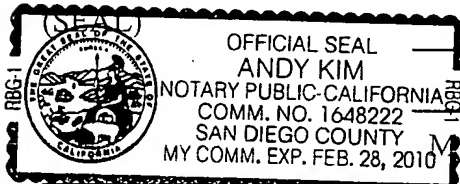
☐

personally known to me, or

☒

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Andy Kim Notary Public

(print name)

My Commission expires 2/28/2010